

DAM, DIVERSION

Design Survey

The following information shall be obtained and recorded in the Field Notes:

- a. Profile and cross-sections of the watercourse and the ditch or watercourse to receive the water (minimum length 500 feet).
- b. Site topography
- c. Foundation and soils investigation.
- d. Corrosion survey (if needed).

Design Data

The information will be recorded in the design notes and appropriate data will be transferred to the construction drawings. The following shall be considered minimum in the design of all diversion dams:

- a. Hydrology for the watercourse.
- b. Hydraulics of the structure and related watercourses.
- c. Structural design.
- d. Related foundation and soil investigations.
- e. Material volume computations.
- f. Records indicating NRCS obligations regarding State and Federal regulations have been met.

Drawings and Specifications

The construction drawings shall include, but will not be limited to the following:

- a. Over all plan view.
- b. Location map.
- c. Sectional views showing dimensions and details.
- d. Profiles and cross sections as required.
- e. Reinforcing details and steel schedule.
- f. Related hydraulics.
- g. Concrete mix.

Practice specifications along with applicable "Items of Work and Construction Details" shall be provided for each item or phase of construction.

Layout Survey Notes

The following information will be recorded in the field notes:

- a. Location and alignment stakes.
- b. Reference stakes.
- c. Centerline and slope stakes as required.
- d. Grade stakes.

Compliance Check

The complexity of the structure will dictate the need for compliance checks during construction. All compliance checks shall be recorded in the field notes. Narratives of construction checks shall be recorded in the Job Diary or on a sheet in the field notes. Compliance checks shall include but will not be limited to the following:

- a. Measurements and elevations.
- b. Steel placement.
- c. Material testing (use standard forms for recording).
- d. Quality and quantity of materials.
- e. Statement of compliance.

As-Built Plans

As-built drawings shall be prepared for all diversion dams. These drawings shall reflect all significant changes in linear measurements, quantities, alignment, or design changes. If there were no changes, the original drawings shall be marked "As-Built".

Refer to record requirements for Ponds, 378, in the event the diversion dam consists of earth fill.